

DOW CHEMICAL U.S.A.

Ind SW

TEXAS DIVISION

March 1, 1981

Mr. Minor Hibbs Texas Dept. of Water Resources P. O. Box 13087 Capitol Station Austin, TX 78711

Dear Mr. Hibbs.

Attached is a proposed revision of the Texas Division TDWR Registration. Major changes were made in Part I, Wastes Generated, by the addition of new disposal options, and in Part III, On-Site Disposal Facilities, by the addition of hazardous waste storage sites. A new waste has been added to complete our Part I list of given a waste sequence number 10. We are proposing these changes in order to more accurately reflect our waste management practices.

As you requested, we have listed below the EPA hazardous waste numbers for each Class I waste. In addition, some of these Class I wastes could be identified with P & U

110763 - D001, D002, D003, K027 150140 - K016, K018, K319, K028, D001 111400 - F003, F005, D001, D003 110570 - F001, F002, D001, D002, K017, K029, K073, K095, K096 #10 - D001, D002, D003, D904, D005, D007, D008, D009, D011, F007, F008, F003

We are submitting these proposals for your review and will be calling at a later date to set up an appointment to come to Austin and discuss these changes with you. In the interim, if you have any questions, please contact Larry Bone or Sandy Henderson at (713) 238-3215.

Sincerely,

K. L. Shewbart, Manager Environmental Services MAY 14 1981

cgc

AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY



Industr Solid Waste Generation, Japonal
This is not a permit and does not constitute authorization
of any disposal facilities listed below. Requirements for
solid waste management are provided by TWQB Order 75-1125-1.

REGISTRATION NUMBER 30106 (supercodes Registration Number 20196)
This number is to provide access to stored information pertaining to your operation. Please refer to this number in any correspondence or reports.

Company Name: Dow Chemical, U.S.A.

Mailing Address: Drawer K. B-2616, Freeport, Texas 7754)

Site Location: At Dow Chemical Company's Plant A and B near

Freeport in Brazoria County, Texas

Person in Charge: G. R. Wessels Phone:713/238-2475

TWOB District: 7 No. of Employees: >100

I. WASTES GENERATED

WASTES GENERATED	CLASS	CODE	DISPOSITION
(SEE ATTACHED SHEET)			
			,

II. SHIPPING/REPORTING Under Chapter 4, TWQB Order 75-1125-1, issuance of shipping-control tickets and monthly reporting are required for Shipment Summary Report should be submitted for the month of no later than . Forms and instructions are enclosed for the following wastes now being shipped:

None Identified

I WASTES GENERATED

-	W STES GENERATED	CLASS	CODE	l Discourse
1.	General plant trash (paper			DISPOSITION
2.	garbage, metal and plastice) II	279760	On-site (Landfill)
3.	Non-chlorinated organic liquids, semi-solids	11	249860	On-site (Landfarm)
4.	prums containing high viscosity chlorinated hydrocarbons, resins, resin waxes	1	110760	On-site (Biologica Treatment, Recover Storage, and Incin eration)
5.	Solid plastics, resins and	I	150140	On-site (Landfill)
6.	hydrocarbons Non-chlorinated oils and solvents	II	260270	On-site (Incinerat
7.	Chlorinated hydrocarbon liquids	I	111400	On-site (Incinerat
8. 9.	Magnesium cell sludge Asbestos	I	110570 140720 179390	On-site (Incinerat On-site (Landfill) On-site (Landfill)

Registration Number 30 Company Name Dow Chemical, U.S.A.

III. ON-SITE DISPOSAL FACILITIES

- Dow Site B-1 for the treatment, recovery and disposal of wastes numbers 3, 4 and 8 above.
- Landfill, Dow Site B-3 for the disposal of waste number 1 and
- Incineration area, Dow Site B-4 for the disposal of wastes numbers 5, 6 and 7.
- Dow disposal area Site B-2 a presently inactive lagoon and landfill area.
- 5. Landfill, Dow site B-3, for the disposal of wastes numbers 1,2,3,4,8 The above identified disposal areas are located on property owned and controlled by Dow Chemical, U.S.A. near the City of Freeport in Brazoria County, Texas adjacent to Segment Number 1111 of the San Jacinto-Brazos Coastal Basin.

IV. RECORDS

A. For purposes of filing annual disposal reports pursuant to Section 4.03 B. of TWQE Order 75-1125-1, records should be maintained for disposal of the following waste(s) listed in Part I:

(SEE ATTACHED SHEET)

- B. Proof of recordation in the county deed records as required by Section 1.05, TWQB Order 75-1125-1, should be submitted to the Texas Water Quality Board no later than for the following disposal facilities as listed in Part III:
- Deed recordation is required for number 1 and 2, Dow Sites
- Deed recordation for Dow Sites A-1, A-2, B-2, B-4 and B-8 was received by this office on June 11, 1976.

AJ/sdc

DATE October 7, 1976

IV. RECORDS

1. 2. 3. 4. 5. 6. 7.	279760 249860 110760 150140 260270 111400 110570 140720	Trash Inert process sludge Chlorinated and nonchlorinated organic Drums of organic materials Plastics Oils and solvents Chlorinated hydrocarbons Magnesium coll sludge	liquids
9.	179390	Magnesium cell sludge Asbestos	

I. · Wastes Gener ced

	Wastes Generated	Class	Code	Dispo	sition
1.					
2.	and paper products, wood garbage, metal and plastics) Solid and semi-solid rubble,	11	279760	On-site	(Landfill)
•	essentially inert process sludge, ditch cleanings, lime rejects, soil, inorganic			Off-site	(Incineration) (Reprocessing)
3.	solids, semi-solids, and slurries Non-chlorinated organic	11	249860	On-site	(Landfill)
	liquids, semi-solids, solids;	_	110760		<i>(</i> 7
	resin liquids and semi-solids	ī	110760	On-site	(Incineration) (Reprocessing) (Storage) (Landfill)
				Off-site	(Incineration) (Reprocessing)
4.	High viscosity chlorinated hydrocarbons, solids, semi-				
	solids, tars	I	150140	On-site	(Incineration) (Reprocessing) (Storage) (Landfill)
5.	Salid -liii			Off-site	(Incineration)
	Solid plastics, resins and hydrocarbons	11	280270	On-site	(Incineration) (Landfill)
5 .	Non-chlorinated oils and solvents	I	111400	On-site	(Incineration) (Reproces ing) (Storage)
1.	Chlorinated hydrocarbon liquids	I	110570	Off-site On-site	(Incineration) (Incineration) (Reprocessing)
	×4			Off-site	(Storage) (Incineration)
3.	Magnesium cell sludge Asbestos insulation	I	140720 179390		(Landfill) (Landfill)
).	Inorganic solids, semi- solids, slurries	1		On-site	(Landfill)
	7				
	* v * *			*Also Off-	site Land?ill
					ATTACHMEN

ON-SITE DISPOSAL FACILITIES

Dow Site B-1 for the treatment, recovery and disposal of wastes 2.

Landfill, Dow Site B-3 for the disposal of wastes numbers 1, 5 3.

Incineration area, Dow Site B-3 for the disposal of wastes numbers 1, 3, 4, 5, 6 and 7. 4.

Dow disposal area Site B-2 a presently inactive lagoon and 5.

Landfill, Dow Site B-3 for disposal of wastes numbers 3, 4, 6, Dow Site B-4700 landfill for disposal of waste number 2 (between 6.

Incinerator area, Dow Block, B-451 for disposal of wastes num-Tank storage area, A-1800, Dow Block for disposal of wastes num-Tank storage area, A-2400, Dow Block for disposal of wastes num-Tank storage area, A-1909, Dow Block for disposal of wastes num-Tank storage area, A-1000, Dow Block for disposal of wastes numbers 4 and 7. Tank storage area, A-5000, Dow Plack for disposal of wastes num-Tank storage area, A-7000, Dow Block for disposal of wastes num-Tank storage area, A-416 , Dow Block for disposal of wastes num-

Tank storage area, A-2800, Dev Block for disposal of wastes num-Tank storage area, B-2100, Dcw Block for disposal of wastes num-Tank storage area, B-800, Dow Block for disposal of wastes umbers 3, 4, 6 and 7.

Tank storage area, B-1900, Dow Block for disposal of wastes num-Tank storage area, B-600, Dow Block for disposal of waste number 7. Tank storage amea, B-4600, Pow Block for disposal of waste number

Tank storage area, B-6600, Dow Block for disposal of waste number 7 Tank storage area, B-1000, Dow Block for disposal of wastes num-

TEXAS DEPARTMENT OF WATER RESOURCES

Bragona 7

PERMIT APPLICATION

INDUST THE SOLID WASTE STORAGE / PROCESSING / DISPOSAL FACILITY DIST 7

PART A - FACILITY BACKGROUND INFORMATION

GENERAL	INFORMAT	ION

A. Applicant: Dow Chemical Company, U.S.A.

[Individual, Corporation, or Other Legal Entity Name]

Address: B-1226

City: Freeport State: TX Zip Code: 77541

B. Author : zed , Agents

Telephone Number: 713/238-3949

1. List those persons or firms authorized to act for the applicant during the processing of the permit application. Also indicate the capacity in which each person may represent the applicant (engineering, legal, etc.). The person tisted first will be the primary recipient of correspondence regarding this application. Include the complete mailing addresses and phone numbers.

Karch Shewbart, Engineering & Environmental Darry! Cragar, Engineering & Environmental Chives Evans, Engineering & Environmental Ed Aldous, Legal

2.	List the individual and	his/her mailing address that	
	toponsitie ioi causing	any necessary public notices	will be
	in the newspaper.	, poetre norices	to be published

Name: Karen Shewbart

Address: B-1226

City: Freeport State: TX RECENTED TO 17541

Telephone Number: 713/238-3949

AUG 17 1980

PERMIT CONTROL

-	Karen S	shewbart			
	ss: B-1226		-		
City:_	Freeport	State:_	TX	_ Zip Code:_	7754
	one Number:_				
Operator:	'Identify to s applicant,	he entity w state "sam	no will cond	duct facility	opera
Name:	Same as /	Applicant			
Address:_					
City:	s	itate:	z	ip Code:	
Telephone'	Number:				30
			-		
1907 85.07					
Ownership				1.5	
•	-				
•	e the owners	nip status	of the faci	lity:	
	-	nip status	of the faci	lity:	
i. Indicat	e the owners		•	lity:	
i. Indicat a. Pri (1) (2)	e the owners	5	of the faci X	lity:	
i. Indicat a. Pri (1) (2) (3)	c the owners vate X Corporation Partnership Proprietors	o o ai na	x	lity:	
i. Indicat a. Pri (1) (2)	corporation Partnership Proprietors	o o ai na	x	lity:	_
i. Indicat a. Pri (1) (2) (3)	c the owners vate X Corporation Partnership Proprietors Non-profit	o o ai na	x	lity:	
i. Indicat a. Pri (1) (2) (3) (4) b. Publ	corporation Partnership Proprietors Non-profit	o o ai na	x	lity:	
i. Indicat a. Pri (1) (2) (3) (4) b. Publ	c the owners vate X Corporation Partnership Proprietors Non-profit lic Federa; Military	o o ai na	x	lity:	-
i. Indicat a. Pri (1) (2) (3) (4) b. Pub: (1) (2) (3)	corporation Partnership Proprietors Non-profit lic Federa; Military	ship organizatio	x	lity:	
i. Indicat a. Pri (1) (2) (3) (4) b. Pub (1) (2) (3) (4)	corporation Partnership Proprietors Non-profit lic Federa; Military State Regional	o o ai na	x	lity:	•
i. Indicat a. Pri (1) (2) (3) (4) b. Pub (1) (2) (3) (4) (4) (5)	county construction construc	ship organizatio	x	lity:	•
i. Indicat a. Pri (1) (2) (3) (4) b. Pub (1) (2) (3) (4) (5) (6)	corporation Partnership Proprietors Non-profit lic Federa; Military State Regional County Municipal	ship organizati	X	lity:	•
i. Indicat a. Pri (1) (2) (3) (4) b. Pub (1) (2) (3) (4) (5) (6)	county construction construc	ship organizati	X	lity:	-
i. Indicat a. Pri (1) (2) (3) (4) b. Pub (1) (2) (3) (4) (5) (6) c. Othe	corporation Partnership Proprietors Non-profit lic Federa; Military State Regional County Municipal	ship organizatio	X	,	-

Colo.	a. Submit -5 bh attachent a copy of the description of facility and/or site property, a
	Name: Same as Appliance
	Name: Same as Applicant Address:
	City:
	City:State:Zip Code:
	E. Type of Permit Application:
	1. New X 2. Amendment (TDWR Permit Number:)
	F. Registration and Permit Information
	I. Denote your TDWR Solid Waste Registration Number. If none, state
	30106
R	2. Indicate (by listing the permit number(s) in the appropriate column below) all existing or pending State and/or Federal permits or construction approvals which pertain to pollution control or industrial solid waste management activities conducted by your permit or at your location. Complete each blank by entering the relevant Program and/o. Law
a. c. d. e.	Wastewater disposal Act Wastewater disposal under the Texas Water Code Underground injection under the Texas Water Code Texas Clean Air Act Texas Clean Air Act Texas Uranimum Surface Mining & Reclamation Act Texas Surface
9.	Reclamation Act None Hazardous Waste Management program under the Resource Conservation and Recovery Act None

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h. UIC program under the Safe Drinking None Water Ac: 006423 1. NPDES program under the Clear Water Ac: j. PSD program under the Clean Air Ac: None .. Nonattainmen; program under the See Attachment 2.d. TACB Clean Air Ac: 1. National Emission Standards for Hazardous 'allutants (NESHAPS) preconstruction approval under the Clean None Air Act m. Ocean dumping permits under the Marine None Protection Research and Sanctuaries Act n. Dredge or fill permits under section See Attachment 2.n. Corps* 404 of the Clean Water Act None Other relevant environmental permits

Use the following acronyms for each agency as shown below:

TDWR = Texas Department of Water Pesources

TACB = Texas Air Control Board

TRC = Texas Railroad Commission

TDH = Texas Department of Health

TDA = Texas Department of Agriculture

EPA = U. S. Environmental Protection Agency

CORPS = U. S. Army Corps of Engineers

- G. Description of Business
 - 1. Give a brief description of the nature of your business.

Chemical Manufacturing

 List the principal products and/or services which are provided by your plant. Please itemize by Standard Industrial Classification (SIC) codes.

SIC CODE	PRINCIPAL PRODUCTS
2812 2813	Alkalies and Chlorine Industrial Gases
2819	Industrial Inorganic Chemicals Plastics, Synthetic Resins
2821 2865	Cyclic Intermediates
2869 2873	Industrial Organic Chemicals Ammonia
3356	Magnesium

ATTACHMENT 2.d. CONSTRUCTION PERMIT AND NAMED TEXAS CLEAN AIR ACT

. EARS CLEAN /	AIR ACT
Name	Numbe
Chlorathers se	114. 50
Chlorothene Storage Tanks	C-119
Chlorothene Storage Tanks	C-120
Chlorohydrocarbon Waste	C-313
Emergency /ueld Oil	C-645
Emergency Fuel Oil	C-646
Propylene Oxide Finishing	C-654
High Purity Olefins Modification	
	Exempt
Circulation Fanancian	C-817
Sym-Tet Modification (Phase I)	C-1258
erin Storage lank	C-770
Methyl Chloroform Pilot Plant	Exempt
i diy iy	Exempt
Alkylene Amines Pilot Plant	C-8J4
TODYTERE DATA DOSC +:	Exempt
nydrocarbon Cracking Diles Di	C-666
	C-879
Chloromethanes Production, A-71	C-919
	C-994
nex udinering System	Exempt
Diphenyl Purification	C-1091
Fluid Bed Drier #A	C-1312
CO2 Removal, LHP 6	C-1407
Liquid Versene Reactor	Exempt
rolyethylbenzene Tanke	C-1472
VKE Pilot Plant	Exempt
Urethane Market Development	Exempt
	C-1496
HEA and HPA Storage Tanks	Exempt
Childrine cell pilot plant	Exempt
mili Creek	Exempt
Poly Grease Storage Tanks	657-A
CODVIER CYING Dilat Di-	Exempt
COU DEVIE FACILITY DITES DE	Exempt
	Exempt
ecu Supplement Fynancian	C-1608
butdulene - Ammonia Possessess	C-1607
Meconi SS 100 100 Styrono Facilia	Exempt
	Exempt
Mag Cell Pilot Plant	Exempt
VOTADOL Expansion	Exempt
V1V2 Modification	C-1874
Styrene Pilot Plant (EB Cracking)	C-1903
	Exempt
	Exempt
2,3-Dichlorohydrin-Glycerine No. 1	C-2003
	Exempt
Cydnobyridine Dilot Di	C-2051
	Exempt
Olymer Pilot Plant	Exempt
poxy Hardner Pilot Plant	Exempt
Social at American	Exempt

hane	Lumber
EDTA Pilot Plant	Exempt
Ethylene-Armonia Acrylate Latex Pilot Plant	Exempt
Epichlorohydrin-Ammonia Resin Pilot Piant	Exempt
Phospenation Pilot Plant (TDI)	Exempt
Oxidation of Propylenc-Pilot Plant	Exempt
PCH Reactors - Glycol A	C-2350
Propylene Distillation	Exempt
Chlorine Vent Recovery	C-2394
Power #3-Gas to Oil Conversion	C-2369A-L
Power 4 Gas to Oil Conversion	C-2370A-E
Epi Hydrolyzer Modification - Glycerine I	C-2471
Sym-Tet Modification Phase II	C-2472
Piperazene Pilot Plant	Exempt
Assetulance Function	C-2561
Acetylene Expansion	C-2562
Polyol Resin	Exempt
EDTA Pilot Plant	C-2606
Vinylidine Chloride Expansion	Exempt
Gas Oil Conversion Pilot Plant	C-2689
Styrene Storage Tank	Exempt
DETA Storage Tank	Exempt
Polyapi Pilot Plant Expansion 1.2.3-Trichloropropane Modification Gly I	C02763
	C-2773
Pichloram Expansion	Exempt
Aqueous NH3 Storage Tanks	Exempt
Chloromethane Improvements	Exempt
EPI Quat Pilot Plant	Exempt
Monomer Pilot Plant (Phenolphthalein)	C-2968
Tertiary Amyl Alcohol B-39	C-2804
Bisphenol A Expansion	C-657A
Barium Sulfate Reclamation (Mill Creek)	C-3077
Prototype Coating Plant	C-2855
Poly 3 Expansion-Trian C Chloromethanes Pilot Plant A-18	Exempt
Acetylene Modification (CO Production)	C-3233
	Exempt
Polyethylene Flare Liquid Versene Incremental Exp.	C-3164
Power I Expansion	C-3189
Ethylbenzene Pilot Plant	Exempt
Chlorine Liquifaction - A	C-3302
Chlorine Liquifaction - B	C-3301
Industrial Polyglycol Market Development	C-3300
C-5 Dienes	C-3347
Hydrochlorination of Chloropropenes - Pilot	Exempt
Latex Modification	C-3320
Ethylene Recovery Pilot Plant	Exempt
	C-3397
Phenol Recovery EO Pilot Plant	Exempt
Isocyanate Prepolymer Pilot Plant	Exempt
Solvent Condensing Unit Pilot Plant	Exempt
FOR #0 Pobabilitation	Exempt
FBD #@ Rehabilitation	C-3571
Epoxy Novolac Expansion	Exempt
Dimethylmorpholine Pilot Plant	LYGIIPL

ATTACHMENT 2.n.

U.S. CORPS PERMITS
THE DOM CHECKLI COMPANY
1972 - 1980

	Permit 2	Effective Date	No.
	6406-1	10-24-74	Description Wharf A-2
	6406 Area 85	11-30-77	Maintenance Dredging Wharf A-2
	6988-1	5-18-72	Mainentance Dredging Spoil Area #35 Wharf A-8 Construction and
	8931	1-27-72	Maintenance Dredging Oyster Creek 2 Pipelines
	9020	5-18-72	Oyster Creek
	9022	5-19-72	3 Pipelines Oyster Creek
(F)	9693	11-07-73	2 Pipelines Oyster Creek
•	9694	11-07-73	8 Pipelines Oyster Creek
	9695	11-07-73	Austin Bayou
	9696	11-07-73	4 Pipelines Bastrop Bayou
	9734-1	10-25-73	4 Pipelines Wharf A-1
	9735	11-13-73	Maintenance Diedging Wharf B-6
	9775	11-26-73	Maintenance Dredging
	9845	1-15-74	Riprap Bank Protection Brazos River - Plant B
;	9851	1-22-74	Old Brazos River 4 Pipelines Oyster Creek 1 Pipeline

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Name	Harris o -
Ris Aminocott 1 m.	Rumbe-
Bis-Aminoethyl Ether Pilot Plant Pellet Coating Pilot Plant	Exempt
Epoxy Resin Expansion/B-6200	Exempt
Mag Casting - Plant A	C-3691
Allyl Chloride-Fni	Exempt
Allyl Chloride Reactor Conlace	C-3740,C-3741 & 3741A
	Exempt
nelyill Acid Acroloin Catalina Dia	Exempt
Polyepi Derivatives	Exempt
Mag I, III, & Mag Chlor BOT's	Exempt
riethy lene Unioride Evpansion	Exempt C-3957
caper imental Reactor Allul co:	Exempt
'V'JY'YUU'INP INPERMAL OVIJIA	C-4932
Power & Steam Generation	C-3914
N(hydroxyethyl)-Ethylenediamine Triac Acid Pilot Plant	etic
Furflyhydantion Pilot Plant	Exempt
Modification of Chloring	Excapt
Modification of Chlorine 3, 4, and 5 Propylene Oxide Reaction	C-4020,C-4021,C-4022
Acetylene Smokelace Flam	C-4031
Conversion of Steam to Elect./Compress	Exempt
at Poly II	
TDI Incinerator	Exempt
Polybutadiene pp	C-3976
Ethyl Benzene Oil Finishing	Exempt
Topy lene Ulchloride Hydrogonation W.	Exempt
PO to EO	Exempt Exempt
Emergency Flare B-70 Crude Oil Cracker PP	C-4154
Ethylene Glycol B-54	Exempt
EO Modification B-54	C-4273
Styrene I Modernization	C-4310
MEA Storage Tank	C-4370
Polyethylene Pilot Plant	Exempt
ruly IV. Irain 3	Exempt
tu Reactors B-13	C-4613
waste feed Boiler at Glycoring 41	C-4638
(Supprement to (-2471)	C 4525
Dioxage in 1-Amyl Facility	C-4575
orethane mkt. development	C02968A
	C-1496A Exempt
Catalyst Testing Facility	Exempt
Vinylidene Chloride Purification	C-4934
Power 2 Gas to oil Conversion (4 of 7 boilers)	3 1331
Cynaopyridine	C-4991(A,B,C)
Sym-Tet Day Tanks	C-5020
letras Cracking Uni+	C-5191
methylene Chloride	C-5339
Sym Tet #2	B-5340
	C-5268

Na <u>me</u>	Number
Latex-Polyol Pilot Plant	Fuerre
SO2 Storage Tank	Exempt
HC1 Absorption System	Exemp: C-5661
Styrene . lare	C-5707, C-5708
HC1 Storage Tank A-1600	Exempt
Flare at B-35	C-5762
Ethanol Show Tube	Exempt
Ethylene Amines Pilot Plant	Exempt
Sym Tet Pilot Plant	Exempt
Latex Expansion	C-5162
A-13 Dock	C-6160
Marine Salt Dome Transfer System	C-6161
Acrylonitrile Pilot Plant	Exampt
2 Crude oil tanks at Webster	C-6474
1 Kerosine Naptha Tank at Lomax	C-6475
Styrene Acrylonitide Latex Pilot Plant	X-286
Cl2 Pilot Plant	X-349
PO Drying Pilot Plant	X-305
Dicyclopantadiene Acrylate	C-919A
New Tank Car Cleaning Facility	C-6383
Ethylene Amines Expansion	C-6382
Chlorinated HC Recovery (Env'l. Op.)	C-6707
Epoxy Storage Tank at Voranol	C-6708
Solvent Storage Tank Poly III	C-6744
Hydrocarbon Recovery (Env'l. Op.)	C-6473
Irain 4 Poly III	C-6803
C5 Dienes B	C-6932
Dichloroethyl Ether	C-6892
DCPD Acrylate PP	X-417
EDA Tanks (5)	C-6911
Furnace Relocation LHC #5 and #6	X-423
A-14 Dock	C-7008
Methyl Butynol Tank	X-403
Experimental Mag Cell	X-445
Benzene Modernization (Phase I)	Exempt
Liquid Epoxy Resin PP	X-451
Acrylic Polyelectrolyte PP	X-446
Addendum to Spoxy Resin II	C-7093
Pentachloropyridine Tank Nagnesium Granules	Exempt
MDI Pilot Plant	Exempt
Benzene Modernization I (Phase II & III)	X-478
Glycol Capacity	Exempt
Mkt. Development Storage Tanks (2)	λ-547
2 RC1 Storage Tanks	Exempt
Diethylbenzene Separation	Exempt
Polyethylbenzene Tanks	X-674
C-5 Diene Soak Tanks	Exempt
Ethylene Oxide Optimization	X-469
HAA Expansion	Exempt
Voranol Hi Moelcular Wt. Polyol	Exempt
Total III Mercular Mt. Polyor	Exempt

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Name	phone
* m (-4	Litt. Do
D-31 Inhibitor Blend (tk)	
Mitroethane th	Exempt
Methyl Butynol tk	Exempt
Sisphenol Purification Minimian	Exempt
-12.5 M-141 to M-83	Exempt
Cracking Furnace LHC #7	X-689
HCL Column	C-690 X-667
Magnesium Prod. Development Pilot Plant	X-682
A-10 Incinerator	C-7448
Market Development Capped Polyol	Exempt
raitidi Lompustion Crickor	C-7523
Relocation EDC TC & TTLd8	X-731
Polycarbonate	C-7531
PDC Purification	Cancelled
DETA Production	X-765
Ethylene Amines Reactor Pilot Plant	X-766
roly iv modification	Cancelled
Pentene Nitrile Pilot Plant	X-775
Piperazine Tank	X-794
2 Storage Tanks at Chloropyridines * PDC Recovery (B)	X-792
Hydrocarbon Beauty (B)	C-7591
Hydrocarbon Recovery (Permit Amendment) Tank Car Cleaning (Amendment)	Exempt
Latex Tanks	Exempt
Eri Expansion	X-791
Solvent Storage Tank Poly IV	Exempt
2 Storage Tanks at Chloropyridines	X-790
Titanium Sponge Pilot Plan:	X-845
	X-904
C-5 Dienes B-Add'n Flare	X-955,X-956
Epi Storage Tank (Ch. in service)	X-6932A
right b rower financion	X-959
UEIA Pilot Plant	C-7871
Alpla-Piccline Pilot Plant	X-1030
Ballast Water Tank	X-1040
2 Storage Tanks & loading mack	X-1069
cpi did water lank in R.62	Exempt
reed Processing (Experimental Har Care	X-1076 X-1089
	X-1093
LHC #5 Furnace	X-1181
Heavies Col-Alpha Di	X-1123
Tank Ch. to Epi Service Allyl Alc. Jank-Market Development	X-1179
INC. Jank-Market Development	X-1158
tru Station	X-1152
Fluid Bed Conbustor Pilot Plant	X-1153
Amines Flash Mini Plant	X-1163
Direct Neutralizer Tarks Heat Recovery Unit	Exempt
Direct Neutralizer	C-8026
Polyethylbenzene OP at Plant B	Exempt
Jany rounzene or at Plant B	Exempt

19- 5

Page 5 🌑



Name	Manage
	Number
100 M Blb. Ballast H20 Tank 2 RCI Storage Tanks for Cell Feed B 200 M rol Gasoline Methyl Butynol (change tank size) Epi to Telone II (change of service) Specialty Isocyanate Reactor and Storage Polyglycol Storage Tank Kerosine Storage Tank Linear Alpha-Olefin Pilot Plant High RCI Iron Tank Solid Waste Incinerator Organo-Asbesios Diaphragm Pyrazine Pilot Plant	X-1203 Exempt Exempt X-1486 Exempt X-1566 X-1567 X-1610 X-1644 Exempt
Carcking Catalyst Pilot Plant Compartmental Tank Truck Loading	Exempt

Non-attainment permits

			*
c	Formit #	Effective Date	Description
~		10-17-74	Wharf A-8 Dredging
	10175-1	9-07-76	Wharf A-8 Maintenance Dredging
	10175-2	3-30-78	Wharf A-8 Maintenance Predging
	10190	12-09-77	Wharves A-4 and A-5 Maintenance Dredging
	10414	3-13-75	Oyster Creek 1 Pipeline
	10510	5-14-75	Oyster Creek 1 Pipeline
,	10511	5-06-75	Oyster Creek 5 Pipelines
€	10607	9-18-75	Wharves A-13 and A-14 Construction & Dredging
	10653	6-18-75	Oyster Creek 5 Pipelines
	11121	3-25-76	Darge Mooring Area & Dolphins Dredging
	11364	8-20-76 (Rev. 4-29-77)	Oyster Creek 3 Pipelines
	12400	12-06-77	Wharf A-6 Maintenance
	12621	3-30-78	Oyster Creek 1 Pipeline
	12747	7-24-78	Wharf A-3 Amendment of CE Permit 4789
	13054	10-24-78	Restoration of South Bank
	13295	2-20-79	of Oyster Creek near FM 523 Floating Boat Dock Brazos River
n	13632	10-03-79	Wharf A-16 Old Brazos River Channel Construction Dredging

Permit #	Effective Date	Description Wharf A-15
14193	4-03-80	Construction Dredging Oyster Creek 1 Pipeline
14233	4-28-80	Dolphins - Repair of 4 near Wharf A-15 and Skimmer Gate

FLC 8-4-80 II. THE EXCHAPAGE INFORMATION

to the facility site.

1.	10	 Par.	0,4	Site

1. Facility Name:	Dow Chemical Com	pany, Texas Division
reet Address, if a	vaitable:	B-1226
Freeport	County:	Brazoria
Are your waste managing jurisdiction of a mu Yes X No		within the extraterritorial
If you checked "yes,	" what municipal	ity?
3. Give a verbal descri with respect to know		ation of the facility site tifiable landmarks.
U.S.A. in Brazoria Com	unty, Texas approx	ned and controlled by Dow Chemica ximately 8 miles from the Gulf of approximately 2 miles to the nort

The facility can be reached by proceeding south from Angleton on State Highway 288 to the city boundaries of Freeport. From there one must travel on private roads owned by Dow to reach the facility.

Velasco and Freeport are approximately 2 to 3 miles to the east.
4. Detail the access routes from the nearest U.S. or State Highway

- 5. Submit as "Attachment A" a United States Geological Survey (USGS), 7½ minute quadrangle map. Indicate on this map the location of the site and the land use patterns of the areas within ' mile (1.6 km) of the site boundaries (e.g., residential, commercial, recreational, agricultural, undeveloped, etc.). Each area of land use should be labeled on the map. (Note: if such a map is not available, submit a substitute map such as a State Department of Highways and Public Transportation county map with sufficient scale to adequately show the site location and surrounding land use patterns.
- 6. a. Submit as "Attachment B" a map indicating the boundaries of all adjacent parcels of land, and a list of the names and mailing addresses of all adjacent landowners and other nearby landowners who might consider themselves affected by the activities described by this application. Cross-reference this list to the map through the use of appropriate keying techniques. The map should be a USGS map, a city or county plat, or another map or drawing with a scale adequate enough to show the cross-referenced affected landowners.

<i>≈</i>
*
 Incident from what roundeds) the names and addresses of persidentified as affected wice obtains.
identified as affected were obtain.
City
Count,
School histric:
Water District
Abstrac! Co.
Other (specify)
7. Enter the geographical coordinates of the site:
Latitude: 28 dag 59 min 16 sec
Longfitude: 95 deg 25 min 2 sec
8. Is the facility located on Indian lands? Check one:
Yes _X No
B. Legal Description of Site
Submit as "Attachment C" a legal description of the entire tract of
land upon which the waste management operations referred to in this permit application occur or will occur.
C. Site Environmental and Technical Information
1. Climatic and Hydrologic
a. Is any portion of your waste management facility site (including proposed, active, and inactive portions) subject to flooding from adjacent or nearby surface water bod as under the following conditions?
the following conditions?
24-hr Rainfall Event Yes No
5-year
50-year - X 100-year - X
50-year 100-year X
b. Are there any producing groundwater wells on your site property
X Yes No
If you checked "yes."
(1) Indicate the number of such wells: 11 , and
, and

IF THE PAGE FILMED IS NOT AS LEGIBLE AS THIS LABEL, IT IS DUE TO THE QUALITY OF THE ORIGINAL.

	40	
	indicite the correction of mater desirence.	
	fal Industrial use:	
	Process water	
	Fire-control water	
	THE CONTROL WITH	
	(b) Potable (drinking) water 10	
	(c) Agricultural uses:	
	Irrigation water for 'ivestock food crops or	orazino
	land	y. oz my
	Livestock watering 1	
	Irrigation water for human food crops	
c.	Are any adjacent or nearby surface waters utilized by thappticant?	
	X Yes No	
	16 you shocked home to add and the	
	If you checked "yes," indicate the corresponding water u below:	ses
	(1) Industrial uses:	
	Cooling water X	
	Process water X	
	Fire-control water X	
	(2) Potable (drinking) water X	
	(3) Agricultural uses:	
	Irrigation water for livestock food crops or grazing	
		9
	Livestock watering	
	Irrigation water for human food crops	
2 514		
2. 3110	Land Use and Subsidence Information	
٥.	is any portion of the overall site property ""lized for	
	agricultural purposes?	
	Yes _X No	
	If you checked "yes," indicate the corresponding uses bel	ow:
	(1) Grazing	
	(2) Livestock food crop	
	(3) Human food crop	
	If you checked no. (2) or (3), specify the types of crops	
	grown.	
8		
ь.	is any portion $arepsilon$, the overall site property subject to lar subsidence?	nd
	Yes X No	
	-8-	

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111. WASTES AND WASTE MANAGEMENT

A. We re Generation and Management Activities

Is any hazardous industrial solid waste (see Title 40, Code of Federal Regulations, Part 261) presently or proposed to be generated at your

X Yes __No

If you checked "no," go to Section III.B.2 below. If you checked "y3s," answer the following question.

I. Are you presently registered with TDWR as a solid waste generator?

X Yes No

If you checked "no," contact the Solid Waste Section of TDWR in Austin, Texas to obtain registration information. Also, continue with the application form igo to Number 2 below).

If you checked "yes," go to Section I of your Notice of Registration, determine which of your wastes are hazardous, and list these wastes (and mixtures) in Table III-I (see Number 2 below).

 Complete Table III-I below, listing all hazardous wastes and all mixtures containing any hazardous waste which are presently or proposed to be generated at your facility. Isee 40 CFR 261.31-331, attaching additional copies as necessary.

In this table, "TDWR Sequence Number" refers to the number in the left-hand column in Section I of your Notice of Registration (Note: if you'are not registered with TDWR, enter "NA" for TDWR Sequence Number and TDWR Waste Code Number).

For the EPA Hozard Code and EPA Hazardous Waste Numbers, see 40 2261.30-33. For annual quantity, provide the amount in units of pounds (as generated) for each waste and/or waste mixture.

Please group the listings of wastes by SIC code, insetar as your processes are designated by SIC codings. Also, within the general SIC code groups, give a brief description of the specific process or operation from which the waste has been generated.

- B. Waste Management Facilities Summary
 - For each waste and waste mixture listed in Table III-I that is
 presently or proposed to be managed on-site, provide the summary
 sheel shown in Table III-2 (Note: you must make copies of Table
 III-2 and submit the completed set of tables as "Attachment D").

Table III-3 Institut Hazardnus Industrial Solid Waste Management Facility Components

Indicate the inactive facility components which were used for storage/processing/disposal of hazardous wastes or mixtures containing any hazardous waste by entering the number of such facility components in the space provided.

2 Lagoon/Pond (lined)	Landspreading Area
Basin learthen, above-grade lined)	Spray Irrigation Area
Basin (earthen, above-grade unlined)	Flood Irrigation Area
Basin (earthen, below-grade lined)	Septic Tank/Drain Field
Basin (earthen, helow-grade unlined)	3 Injection Well
Basin (concrete, above-grade lined)	Tank (surface storage)
Basin (concrete, above-grade unlined)	Tank (sub-surface storage)
Basin (concrete, below-grade lined)	Tank (surface processing)
Basin (concrete, below-grade unlined)	Tank (sub-surface processing)
Basin (other)	Tank (other)
_18 Pit (lined)	Drum Storage Area (open)
Pit (unlined)	Drum Storage Area (enclosed)
Incinerator	Drum Storage Area (other)
Open Controlled Incineration Area	Bulk Storage Area (open)
Boiler (energy-producing)	
4 Landfill (sanitary)	Bulk Storage Area (enclosed) Bulk Storage Area (other)
Landfill (surface, open)	
Landfill (other)	Other (specify

Table III-4 Hazardous Waste Facility Components List

Page 1

	TOWR	Status	Design (Number of Years	Date
. 4	Seq. No. inactive	Active Proposed	(cu yes) (ga	(1bs)	Utilized	Service
-1c. Block Landfill	1,2,3 X			1,000,000	5	1945-50
: + Description: First	landfill in the Yexa	s Division; Causti	c wastes and other	process wastes were	disposed o	f at
his site, along with lumbe	r, trash and drummed	materials.		:		
-1 ursposal Area (A-41 Blo	ck) 1,2,3,8 X			1,253,300,000	20	1953-
a i Description: A 34	acre landfill used	to bury magnesium	ludge, general tras	h and lumber, R-cak	e from the	пад
aucess, solids from riverw	ater treating, and m	iscellaneous organ	ics. Radioactive wa	stes were also disp	osed of in	this
-2 Disposal Are (5 pits)	4,7 · X		*	56,010,000	6	1970-76
Description: The	A-2 site (30 acres)	was a series of si	earthen pits (150	' x 200' x 10') used	to impound	1
durinated hydrocarbons.			ated hydrocarbons an	nd using them as fee	dstock for	our
in al Oxidizer to produce i Disposal Area (12 pits)		Ton or magnesium.		164,200,000	8	1973-80
Description: In 1	975, we began removi	ng chlorinated hyd	rocarbons and using	them as feedstock t	for our The	nnal
	re filled with const	ruction rubble and	covered with clay.			
ite B-2	ning resins, waxes, a	nd chlorinated mat	erials.	220,000,000	29	1944-73
Description of In	3 acre lagcons which	h impound approxim	ately 22 million ga	llons of styrene ta	rs. Dow	
nen ipate pecovering the	se tars at some futur	e date.				
-27 Bluck 7 0 19 0 0	2.8 X			200,000		1948-52
Ares	a used between 1948 a	and 1952 for consti	uction debris, magn	esium sludge and ot	her process	wastes.
_				*		

Bern

page 2

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Facility Con		Stat	us	Dusign Capacity					
Name	Seq. No.	Inactive Act	ive Proposed	(cu yds)	(gals)	(1bs)	Years Utilized	in Service	
WDW 59	2,3				,	000,000	3	1970-7	
Verbal Description: Pl		Well #1 is lo	cated in the B-						
armeous solutions of inc									
The well was plugged in	3/77 with 2535 c	ubic feet of c	ement.						
43 1011 71	2.2	•				2 000 000		1971-75	
WDW 71 Verbal Description: P1	2,3		ed in the R-620			3,800,000		-	
solutions of inorganic a									
plugged in 11/79.									
<u>+</u> -	2247	v				2 (00 000	•	1071 74	
Verbal Description: Pla			ud in the 1.29 B			2,600,000		1971-74	
result bescription. Fre	ne n braposar							3 301410	
	wastes from Gly	vool A and Eth	ylene Dichlorid	e Piants. W	astes were	injected	between		
of inorganic and organic			ylene Dichlorid	e Plants. W	astes were	injected	between		
	was piugged 12/79).	X .			80,000,000		12/1980	
of inorganic and organic	was prugged 12/79		х		8	000,000,08	0* 1.5	12/1980	

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Facility Componer	nt	Status		Desi	gn Capacit	y	Number of	Date
Name	Seq. No. In	active Active	Proposed	(cu yds)	(gals)	(lbs)	Utilized	Service
B-451 Incinerator	3,4,6,7	X				75 15/hr	6	6/26/76
Verbal Description:	Solids incine	rator for burni	ng solid chlor	inated an	d non-chic	rinated w	astes	
	TOWR Facility	#7						
CS T-20 Tank	4,7	Х			30,000		2.5	1/80
Versal Description:	Storage tank	for chlorinated	hydrocarbons	- hazardo	us waste k	028	-	65
	TOWR Facility	79						
09 T-300 Tank	4,7	X			30,500	-	5	6/77
Verbal Description:	Storage tank	for chlorinated	hydrocarbons	- hazardo	us waste k	029		
	TDWR Facility	#9						
10 D-201 Tank	4,7	x			2,370		4.5	10/77
Verbal Description:	Storage tank	for chlorinated	hydrocarbons	- hazardo	us waste k	:073		
	TDWR Facility	#15						G
D2B & D2C Tank	4,7	x			20,000		_16	66
Verbal Jeschiption:	Storage tank	for chlorinated	hydrocarbons	- hazardo	us waste k	019, KO28		
RECE P 9 P 7 TDW	TDWR Facility	#15 .						
17 Tank	3,4,6,7	x	-		17,000		3	79
Verbal Description:	Storage tank	for chlorinated	& non-chlorin	nated hydr	ocarbons -	hazardou	s	
hazardous waste DOO1 -	TDWR Facility	#17						

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Facility Comp	onent Town		Status		Desi	gn Capacity	Number of	Date
Name	Seq. No.	Inactive	Active	Proposed	(cu yds)	(gals) (lbs	Years Utilized	Service
V1 Tank	4,7		_ X			15,500	10	72
Verbal Description:	Storage tan	k for chl	crinated	hydrocarbons	- hazardo	us waste - DOO1		
K017, K020, K030, K	073 - TDWR Facil	ity #17						-
14 V2 Tank	4,7		_ х			7,500	10	_72
/c al Description:	Storage tan	k for chi	orinated	hydrocarbons	- hazardo	us waste KulG		=======================================
	TDWR Facili	ty #17						
V6 Tank	4,7		_ X			5,800	1	81
erbal Description:	Storage tan	k for chl	orinated	hydrocarbons	- hazardo	us waste KO19		
	TDWR Facili	ty #17						
0-4 Tank			X			4,200	2	8C
Verbal Description:	Storage tan	k for chl	orinated	hydrocarbons	- hazardo	us waste DOO1		
	TDWR Facili	ty #17						
0-5 Tank			x			4,200		80
/erbal Descriptffn:	Storage tan	k for chl	orinated	hydrocartons	- hazardo	us waste DOO1		
RECE P 9 P 9	TDWR Facili	ty #17						
New 31 Tank	3,4,5,7			x		35,000		
Verbal Description:	Storage tan	k for chl	orinated	& non-chlori	nated hydr	ocarbons		
	TOWR Facili	ty #17						

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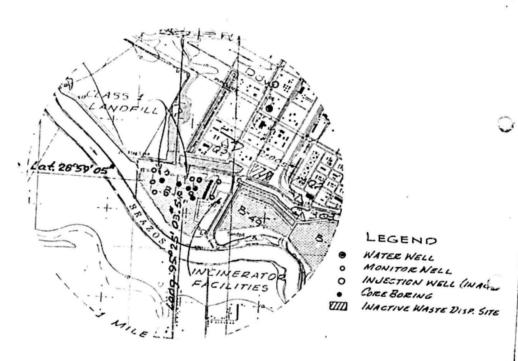
Facility Compo	onent TOWR	Status	Design Capacity	Number of Years	Date
Name		nactive Active Proposed	(cu yds) (gals) (1	bs) Utilized	Service
New Vi Tank	3,4,5,7	X	35,000		
Verbal Description:	Storage tank	for chicrinated & non-chi	orinated hydrocarbons		
	TO'R Facility	y #17			
1208 Tank	4,7	<u>x</u>	18,000	5.5	10/76
Verbal Description:	Storage tank	for chlorinated hydrocart	oons - hazardous waste K017		
	TDWR Facility	y #18			
1209 Tank	4,7	x	18,000	5.5	10/76
Verbal Description:	Storage tank	for chlorinated hydrocart	ons - hazardous waste KO17		
	TOWR Facility	y #18			
V-1000 Tank	7	x	6,375		11/80
Verbal Description:	Tank used for	r phase separation of chic	orinated hydrocarbons & water		
hazardous waste - KC	30 - TOWR Facili	ty #14			
V-1001 Tank	7	x	14,000	2	11/80
Verbal Description;	Tank used for	r phase separation of chlo	orinated hydrocarbons & water	hazardous waste	K030
EP S	TOWR Facility	y #14			
VI Tank & S	7	Х	23,000	-	-
Verbal Description:	Stanzaa tank	for chlorinated budgeson	oons - hazardous waste KO30		
Terbal bescription:	Storage tank	for chiorinated hydrocart	ons - nazardous waste kust		

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Facility Compo	nent		Status		Desi	gn Capaci	ty	Number of	Date
Name	Sag. No.	Inactive	Active	Proposed	(cu yds)	(gals)	(1bs)	Utilized	Service
V2 Tank	7			<u> </u>		11,000		-	
Verbal Description:	Storage ta	nk for chl	orinated	hydrocarbon	ns - hazardo	us waste	(030		
	Not presen	tly in use	- IDWR	Facility #					
RC1 Separator Facility	7		x			7600/day (water)		2.5	_3/80
Verbal Description:	Series of	tanks and	vessels	used to sepa	rate RC1's	and water			
Tank #'s S-50, S100A, S-100B	used for phas	e separati	on; VF-1	01,VF-102 at	re water che	ck tanks,	VF-110,VF	-111 are RC1	storage tank
6H-113 RC1 vapor storage,	T-100 - efflue	nt steam s	tripper	- TOWR Facil	ficy #3				
1-									
Oil Separator Facility	5		_ X			57600/day		2.5	3/80
Verbal Description:	Series of	tanks & ve	ssels us	ed to separa		1		250, S-200A,	
S-200B used for phase sepa	ration, VF-210	used for	oil stor	age - TDWR F	acility #3				
Ancinerator Feed Tanks	6		χ			31,000		15	67
Verbal Description:	Storage to	inks used t	o hold n	on-chlorinat	ted waste fo	r inciner	ation. Ta	nk #'s	
V 1, V-302, V-303, D-30	1. D-302 - TDW	R Facility	#3						
Liquid Incimerator W/Scrub	ber7		х			1.2 gpm		15	67
Verbal Desception: Incin	erator with so			n chlorinate	ed organic 1	iquids -	TOWR Facil	ity #3	
15 9 REGE									
Liquid Inchaerator	6		<u>x</u> .			3 qpm		15	67
Verbal Deseription: Incine	rator without	scrubber u	sed to b	ourn non-chlo	orinated org	anic liqu	ids - TDWR	Facility #3	
ECP 1100	3,4,6,7		x				990/hr	2.5	12/80
Verbal Description: _inci	nerator with s	crubber us	ed to bu	ırn chlorina	ted and non-	chlorinat	ed organic	liquids	

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	Facility	y Component		Status		Desi	ign Capaci	ity	Number of	Date of
	Name	Seq. No	. inactive	Active	Proposed	(cu yds)	(gals)	(1bs)	Utilized	Service
ECP 2500	's	3,4,6,7	-		х			6000/hr	-	
Verbal Des	scription:	Two incinerators	used to burn	non-ch	lorinated org	anic liquid	ds and so	lids.		
Not in ser	rvice yet .	- TDWR Facility #3								
Li-id Inc	cinerator	6,7			×		5 gpm			- 6
Verbal Des	scription:	Incinerator used	to burn non-	-chlorina	ated organic	liquids.	Not in se	ervice yet	- TDWR Facil	ty #3
2-284 Tank	k	6		x		***************************************	5000		1	4/81
Verbal Des	scription:	Storage tank for n	on-chlorina	ted hydro	ocarbons - Ha	zardous Was	ste D001 -	- TDWR Faci	lit, #	
Mix Boxes)	х			250,000		6	76
Verbal Des	scription:	In-stream neutrali	zation device	es util	izing a serie	es of baffle	es for mix	king A-511,	#1, #2, larg	ge, small
17		mix boxes								
B-1038 St	orage	3,4,6,7		X			50,000		3	10/79
Ve al Des	scription:	Container storage	area for ha	zardous v	waste - TDWR	Facility #2	22			
-	P C	,								
Verbal Des	SPHOTONO	NEC .	-			> 4				
	TNO TO	-EIVED								
	8 3	Y								



9

ATTACHMENT E-1

SIC Code 2819						
Verbal Waste Description	Crigin of Waste	TDUR Waste Code Number	Collection Method	Intemediate Processing	Transportation Method	Final Disposal
Spert halogenated solvents in degreasing	Inorganic Froducts	110570	Drum, can, fiberpak, liquid dempster	••	Transport or Dempster Service	Incinerator with scrubber
Spent halogenated solvents and the still bottoms	Inorganic Products	110570	Drum, can, fiberpak, liquid dempster		Transport or Dempster Service	Incinerator with scrubber
Spent CH3OH, Toluene, MEK, CS2, isobutanol, Pyridine	Inorganic Products	111400	Drum, can, fiberpak, liquid dempster		Transport or Dempster Service	Incinerator

€.

		MI INCHES				79
ists becomption	Crigin of Waste	TOHR Waste Code Number	Collection Method	Intemediate Processing	Transportation Methou	Final Disposal
Epoxy resins in non-halogenate colvents	Resins Research	110760	55 gallon drem or liquid dempster		Dow Transport or Dempster service	Incinerator
Waste Polyethylene saturated with Isopar and iso-occane	Polyolefin/Poly- carbonate Research	110760	Fiberpak		Transport	Incinerator
Epoxy resin waste in acetone	Resins Research	10760	55 gallon drum		Transport	Incinerator
Weste Derakane resin in methylene chloride solvent	Resins Research	110760	Fiberpak		Transport	Incinerator with scrubbe
Waste additive solution						
?	Polyethylene 2	111+00	Liquid dempster		Dempsier service or vacuum truck	Incine.ator
Kerosene and oil	Poly Packaying	111400	Vacuut. Truck	Oil/water sepa- rator system	Vacuum truck	Oils-Incia. Aqueous wast bioponds
XD 7086 Prepclymer	Acrylic Polymers	110760	Liquid Dempster		Dempster Service	Incinerator
Butyl acrylate; vinyl acetate liquid	Polyolefin/Poly- carbonate Research	110760	Liquid Dempster		Dempster Service	Incinerator
Peroxide initiator in iso-octane solvent	Polyolefin/Poly- carbonate Research	11:400	Liquid Dempster		Dempster Service	Incinerator
2,2-Dimethylthiazolidine bottoms and lights	Acrylic Polymers	110760	Liquid Dempster		Dempster Service	Incinerator
T-butyl glycidyl ether	Acrylic Polymers	110760	Liquid Dempster		Dempster Service	Incinerator
Tertiary butanol	Acrylic Polymers	111400	Liquid Dempster		Dempster Service	Incinerator
Liquid waste catalyst with Isopar E, 1-12 organic peroxides	Low Density Polyethylene	111400	55 gallon drum		Transport	Incinerator

SIC Code 2621 (page 2)

100 6 10		ALL TACE	LIII W TOWARD CALL			
3 ste bescription		IDHR Waste Code Number	Collection Method	Intemediate Processing	Transportation Method	Final Disposal
Iso-octane	Polyethylene Solutio Process-Resins Res.	n 111400	Liquid Dempster		Dempster Service	Incinerator
Sump wastes, 95% H ₂ O, P.E. solvent-iso-octane	Polyethylene Solutio Process-Resins Ras.	n 111400	Liquid Dempster		Dempster Service	Incinerator
Dowanol EEA kettle wash	Resins Research	110760	55 gallon drum, liquid dempster		Transport/Demoster Sarvice	Incinerator
Styrene Frocess Waste	Resins Research	110760	Fiberpak	••	Transport	Incinerator
Trimethyl amine, liquid raw	Dowex WGR	110760	Liquid Dempster	RC1/Waste Separa- tion System	Dempster Service	RC1's-Incin. Aqueous Waste
Water with MeCl2, HCl, Tri- ethylene amine, 4-dimethyl- aminopyridine	Polycarbonate Pilot Plant	110570	Liquid Dempster	RC1/Water Sepa- rator System	Dempster Service	RC1's-Incin. Aqueous Waste - Bidponds
Low molecular weight poly- ethylene copolymers	Polyethylene 1	110760	Liquid Dempster	•	Dempster Service	Incinerator
waste catalyst and mineral oil	Polyethylene 1	110760	Liquid Dempster	••	Dempster Service	Incinerator
	Polyethylene 2	110760	Liquid Dempster		Dempster Service	Incinerator
Polyethylene copolymer kerosene solutions	Polyethylene Packaging	110760	Liquid Dempster			Incinerator
XD 7080.01, XD 7080.00, amino ethylated acrylic polymer	Acrylic Polymers	110760	Liquid Dempster			
Val. 64, flammable solid/empty Vazo 64 containers	Acrylic Polymers	110760	Fiberpak		•	Incinerator
Fine particle catalyst in Isopar E slurry-waste catalyst	Low Density Polyethylene	110760	Liquid Dempster	Metals deactiva- ted with water in		Incinerator
					service	Incinerator

	Out-of-spec vinyl resins	Origin of Waste	TOWR Waste Code Number	Collection Method	Internediate Processing	Transportation Hethod	Final Disposal
	and ester	Resins Research	110760	Fiberpak		T	
	DMT/caustic wasta	Acr, lic Polymers	150140	Caustic steel demosts:		Transport	Incinerator
	Blomdown, contains waste oil, vinyl acetate, acetic acid			and acceptable		Dempster Service	Haz. Landfill
		Polyethylene 1	111400	Liquid dempster/vacuum truck	Oil/water Sepa- rator System	Dempster Service/ Vacuum Truck	
	Waste monomers-acrylates. styrene, vinyl acetale, ether:	Lou Beards			9,300	racadm Truck	Incinerator
	arkanes	. Low Density Polyethylene	110760	Liquid Derpst		× •	
	War metal aikyls (mag ala, s, aluminum alkyls)	Folyo.efin/Poly-		100 101 200 * 0022		Demputer Service	Incincrator
	Spent Halogenated Solvents	carbonate Research	150140	Fiberpak		Transport	Haz. Landfill
	in Degreasing	Plastics & Resins	110570	Drum, can, fiberpak,		7	
	Spent Halogenated Solvents			liquid dempster	*:*	Transport or Dempster Service	Incinerator with scrubber
1	and the Still Bottoms	Plastics & Resins	110570	Drum, can, fiberpak, liquid dempster		Transport or	Incinerator
	Spent Xylene, Acetone, Ethyl Benzene and Ethyl Ether			Drum, can, fiberrak,		Dempster Service	with scrubber
	Spent CHaCH, Tolueno MER Co.	Plastics & Resins	111400	liquid dempster	••	Transport or Dempster Service	Incinerator with scrubber
	isocutanoi, ryridine	Plastics & Resins	111400	Drum, can, fiberpak, liquid dempster		Transport or	
		Plastics & Resins	110760	Liquid dempster		Dempster Service	Incinerator with scrubber
	Aniline	Plastics & Resins	110760			Dempster Service	Incinerator
	\bigcirc			Fiberpak		Transport	Incinerator

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IF THE PAGE FILMED IS NOT AS LEGIBLE AS THIS LABEL, IT IS DUE TO THE QUALITY OF THE ORIGINAL.

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7-Chlor-2,3-Epoxypropane	Origin of Waste Plastics & Revins	TDWR Waste Code Number None	Collection Method	Intemediate Processing	Transportation Method Transport	Final Disposal 8THROX or 7Thermal oxidizer
Toluene Diisocyanate	Plastics & Resins	110760	Fiberpak .		Transport	Incinerator

	SIC Code 2865		ATTACHNE	. 6 (40053) (500 01000	• •		
	No. 1256s bescription o	Origin of Waste	TDWR Waste Code Number	Collection Method	Intemediate Processing	Transportation Method	Final Disposal
	Crude ethylhenzene	Styrene & Aromatic Chemicals Research	111400	55 gallon drum		Transport	Incinerator
		Styrene & Aromatic Chamicals Research	110760 or 150140	Fiberpak		Transport	Incinerator or Haz. Landfill .
	nitch skimmer-ethylbenzebe and styrene from spills	Styrene 2	110760	55 gallon drum		Transport	Incinerator
	Spill cleanup (saw dust) from any type of chemical spill	Styrene 2	110760	55 gallon drum		Transport	Incinerator '
	Lab wastes-acrylates, mainly se tyl acrylate	Organic * Products Systems Research	110760	Fiberpak		Transport	**************************************
	Cracking Catalyst	Cracking Catalyst	150140	Sludge Dampster		Dempster Service	Incinerator
	Crude Styrene	Styrene & Aromatics Chemicals Research	111400	55 gallon drum		Transport	Incinerator
h	Spent Xylene, acetone, ethyl benzene and ethyl ether	Cyclic Crude	111400	Drum, can, fiberpak, liquid dempster		Transport or Dempster Service	*Incinerator
	Spent CH3OH, Toluene, McK, CS2, Isobutanol, Pyridine	Cyclic Crude	111400	Drum, can, fiberpek, liquid dempster		Transport or Dempster Service	* Incinerator
	Benzene	Cyclic Crude	110760	Liquid dempster	••	Dempster Service	Incinerator

^{*} times reprocessed at Styrene Production

6. 2.	Care	***		
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Tar	Origin of Waste	TOWR Waste Code Number	Collection Method	Intemediate Processing	Transportation Method	Final Disposal
	Hydrocarbons & Energy Research	111400	Fiberpak	••	Transport	Incinerator
Mixed amines-yellowish liquid which yields fumes in water	Process Research and Engineering	110760	55 gallon drum		Transport	
Faint thinner	Maintenance	111400	55 gallon drum*		Transport	Incinerator
Used Yarsol, liquid cleaning oil	Instrument Services A	111400	55 gallon drum		Transport	Incinerator
Used Yarsoi, liquid shop solvent, like kerosene	Research Mainter ince	111400	55 gallon drum		Transport	Incinerator
Mcethylamine	Marine Terminal	110760	55 gallon urum		Transport	Incinerator
Morpholine	Warehousing Dept.	110760	55 gallon drum		Transport	Incinerator
Filter elements from hydrocarbon service	Aromatics and Dienes	110760	Fiberpak		Transport	Incinerator of
Polymer from towers	Aromatics & Dienes	110760	Fiberpak		Transport	Incinerator
Solid heat exchanger and hydrocarbon tower polymer	Butadiene	110760	Fiberpak		Transport	Incinerator
	LHP 5	110760 or 150140	55 gallon drum with liner and water		Transport	Incinerator o
Denatured alcohol liquid wash process equipment	LHP 5	111400	Liquid dempster		Dempster Service	Incinerator

	SIC Code 2869 (page 2)		ATTACHME	NI 4 PHUCESS FLUM	VINDRAG		
	infle rescription	Origin of Waste	TOWR Waste Code Number	Collection Method	Intemediate	Transportation Meth	Final od Disposal
				•			
	Used ethanol for equipment washing	LHP 6	211490	Liquid dempster		Dempster Service	Incinerator
	Waste oil and non-chlorinated solvents	LHP 6	111400	Liquid Demoster		Dempster Service	Incinerator
	Polymer, solid tower cleaning, carbon-polymer Waste ethanol, refrigeration	LHP 6	110760 or 150140	55 gallon drum with liner& water		Transport	Incineration or Haz. Landfill
	System solvent Hydrocarbon polymer, rubber-	LHP 7	111400	Liquid Dempster	- *	Dempster Service	Incinerator
1	like solid, pyrophoric polymer Water from ditches contaminates		110760 or 150140	Fiberpak with liner and water		Transport	Incineration or Haz. Landfill
		Chlor-Methanes	110570	Ditch	Chlor methanes separated from water and put in vacuum truck	Vacuum Truck	Incineration & NPDES Permitted Outfall
		PDC Finishing	None	Pipeline	•-	Pipeline	Acid furnaces or Mag (Di- rect Neutral- izer)
	\circ					*	
	DCEE bottoms-dichloroethyl ether	Glycol B	None	Vacuum Truck	RC1/water separa- tor system	Vacuum Truck	RC1's-Thermal Oxi- dizer Aqueous waste Bioponds

310 cour coss (page s)		ATTACHME	NT G PROCESS FLOW DIAM	GRAM		
· · · _ izis beseription	Origin of Waste	TDWR Waste Code Number	Collection Hethod	Intemediate	Transportation Math	Final od Disposal
Yeste liquid from flare knockout pot	Propylene Oxide Purification	110760	Vacuum Truck			
Lab waste-chiorinated hydro-	Glycol Quality				Vaceum Truck	Incinerator
carbons (EDC, PDC, DCEE)	Lab	110570	Vacuum Truck		Vacuum Truck	Incinerator with scrubber
Fische: reagent, mixture of						
methanol, acetic acid, and	Fabruary Maria					
En orohydrin still over	Ethylene diamine	110760	Fiberpak		Transport	Incincator
her .ight product-IPC, PDC, allyl chloride	Epichlorohydrin	None	Pinalina			
Distillation overhead from	• • • •		riperine		Pipeline	8 THROX
the separation of chlorinated propenes	2,3-Dichloropropene	None	Pipeline		ripeline	8 _{THROX}
Allyl chloride tars	Soil Fumigants	None	Pipeline			
Lab wastes - RC1's from				••	Pipeline	BTHROX
reagent	Allyl Chloride	None	Vacuum truck	RC1/water separato system		RCL's-Incineration Aqueous Waste - o
Allyl lights-chlorinated C 3's	Allyl Chloride	None	Davis as -/1/		Į	Bioponds or THROX
F/h #11.		None	orum or pipeline		Transport or Pipeline	Thermal Oxidizer' or Feed to Perchlor
commain organic toxics (Epi)		None	Truck			Incinerated at
Waste from analyses - exhausted	ı				Truck	Rollins, Deer Park
	Chlor-Nitrogen Research	110760	Liquid dempster or 55 gallon drum		Dempster Service	
Overhead waste from the dis-	_				or ·ransport	Incinerator
	Chlor-Nitrogen Research	110760	I fould Department			
	anners ann de FOT		riquid Dempster	••	Dempster Service	Incinerator
	Weste liquid from flare knockout pot Lab waste-chlorinated hydrocarbons (EDG, PDC, DCEE) Fischer reagent, mixture of methanol, acetic acid, and pyridine English product-IPC, PDC, allyl chloride Distillation overhead from the separation of chlorinated propenes Allyl chloride tars Lab wastes - RCl's from product samples, Fischer reagent Allyl lights-chlorinated C 3's Fiber filter elements which command or organic toxics (Epi) Waste from analyses - exhausted Kar Fischer/SO2 in pyridine solution Overhead waste from the distillation of crude pentene	Yeste liquid from flare knockout pot Propylene Oxide Purification Lab waste-chlorinated hydrocarbons (EDG, PDC, DCEE) Fische- reagent, mixture of methanol, acetic acid, and pyridine Ethylene diamine Fig. lorohydrin still over-heat light product-IPC, PDC, allyl chloride Epichlorohydrin Distillation overhead from the separation of chlorinated propenes Allyl chloride tars Soil Fumigants Lab wastes - RC1's from product samples, Fischer reagent Allyl Chloride Allyl lights-chlorinated C 3's Allyl Chloride Fiber filter elements which common organic toxics (Epi) Distribution Waste from analyses - exhausted Kar Fischer/SO2 in pyridine Chlor-Nitrogen Research Overhead waste from the distribution of crude pentene Chlor-Nitrogen	ATTACHME TOTAL Waste Yeste liquid from flare knockout pot Lab waste-chlorinated hydro- carbons (EDG, PDC, DCEE) Fischer reagent, mixture of methanol, acetic acid, and pyridine Ethylene diamine Ethylene diamine Ethylene diamine Ethylene diamine In760 Fig. lorohydrin still over- het light product-IPC, PDC, allyl chloride Distillation overhead from the separation of chlorinated propenes Allyl chloride tars Soil Fumigants None Allyl chloride Allyl Chloride Allyl Chloride None Fiber filter elements which comeanin organic toxics (Ept) Waste from analyses - exhausted Kar Fischer/SO2 in pyridine Solution Overhead waste from the dis- tillation of crude pentene Chlor-Nitrogen Chlor-Nitrogen Chlor-Nitrogen Chlor-Nitrogen Chlor-Nitrogen Chlor-Nitrogen Chlor-Nitrogen	Veste liquid from flare propylene Oxide purification 110760 Vacuum Truck Lab waste-chiorinated hydrocarbons (EDG, PDC, DCEE) Fischer reagent, mixture of methanol, acetic acid, and pyridine Ethylene diamine 110760 Fiberpak Fig: Orohydrin still overhet ight product-IPC, PDC, allyl chloride Epichlorohydrin None Pipeline Distillation overhead from the separation of chlorinated propenes Allyl chloride tars Soil Fumigants None Pipeline Lab wastes - RCl's from product samples, Fischer reagent Allyl Chloride None Drum or pipeline Fiber filter elements which Glycerine command or purification organic toxics (Epi) Distribution None Truck Naste from analyses - exhausted Research Chlor-Nitrogen Overhead waste from the distribution of crude pentene Chlor-Nitrogen Overhead waste from the distribution of crude pentene Chlor-Nitrogen Code Number Code Number Collection Hethod Code Number Code Number Collection Hethod Nacuum Truck 10760 Fiberpak Fiber pak Fiber pak	TOUR Maste Code Number TOUR Maste Code Number Collection Hethod Processing Tourn Master Code Number	ATTACHMENT G PROCESS FLOW DIAGRAM TOUR Maste Code Number Collection Hethod Tourn flare Reset liquid from flare Research TOURN Maste Code Number Collection Hethod Truck Vacuum Truck Fischer reagent, mixture of methanol, acetic acid, and pyridine Ethylene diamine Il0760 Fiberpak Transport Pipeline Pipeline